

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/15108

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G09G 5/00;
US CL : 345/661, 778, 716, 788, 800, 801

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 345/661, 778, 716, 788, 800, 801

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, P	US 6,727,918 B1 (Nason) 27 Apr 2004, column 2, line 31- column 42, line 52	1-37, 40
Y, P		38-39, 41
X, P	US 6,686,936 B1 (Nason et al) 03 Feb 2004, column 2, line 16- column 20, line 22	1-37, 40
Y, P		38-39, 41
X, P	US 6,678,007 B2 (Nason et al) 13 Jan 2004, column 2, line 17- column 19, line 17	1-37, 40
Y, P		38-39, 41
X, P	US 6,717,596 B1 (Nason et al) 06 Apr 2004, column 2, line 31- column 42, line 26	1-37, 40
Y, P		38-39, 41



Further documents are listed in the continuation of Box C.



See patent family annex.

Special categories of cited documents:		
"A"	document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"B"	earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O"	document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

29 September 2004 (29.09.2004)

Date of mailing of the international search report

07 OCT 2004

Name and mailing address of the ISA/US

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, P —	US 6,677,964 B1 (Nason et al) 13 Jan 2004, column 2, line 31- column 42, line 56	1-37, 40 _____
Y, P —	US 6,661,435 B2 (Nason et al) 09 Dec 2003, column 2, line 6- column 17, line 27	38-39, 41 _____
X, P —	US 6,639,613 B2 (Nason et al) 28 Oct 2003, column 2, line 16- column 21, line 36	1-37, 40 _____
Y, P —	US 6,630,943 B1 (Nason et al) 07 Oct 2003, column 2, line 3- column 26, line 64	38-39, 41 _____
X, P —	US 6,593,945 B1(Nason et al) 15 July 2003, column 1, line 35- column 6, line 6	1-37, 40 _____
Y, P —	US 6,590,592 B1 (Nason et al) 08 July 2003, column 2, line 9- column 21, line 2	38-39, 41 _____
X, P —	US 6,570,595 B2 (Porter) 27 May 2003, column 2, line 3- column 8, line 67	1-37, 40 _____
Y, P —	US 6,437,809 B1 (Nason et al) 20 Aug 2002, column 2, line 10- column 17, line 56	38-39, 41 _____
X —	US 6,433,799 B1 (Nason et al) 13 Aug 2002, column 1, line 66- column 9, line 5	1-37, 40 _____
Y —	US 6,426,762 B1 (Nason et al) 30 Jul 2002, column 2, line 6- column 17, line 62	38-39, 41 _____
X —	US 6,337,717 B1 (Nason et al) 09 Jan 2002, column 2, line 14- column 19, line 12	1-37, 40 _____
Y —	US 6,330,010 B1 (Nason et al) 11 Dec 2001, column 2, line 4, column 17, line 3	38-39, 41 _____
X —	US 6,310,603 B1 (Nason et al) 30 Oct 2001, column 1, line 60- column 8, line 50	1-37, 40 _____
Y —	US 6,018,332 B1 (Nason et al) 25 Jan 2000, column 1, line 58- column 8, line 56	38-39, 41 _____

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: 42
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Please See Continuation Sheet

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

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Continuation of Box II Reason 2:

Claim 42 is objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claim 42 is indefinite for the following reason(s): Claim 42 provides no clear limitation.